

Patent Claims

1. A field transmitter for process automation having
a
5 - control device for data input and display,
wherein the
- control device B is in the form of a separately
portable unit, and control device B and field
transmitter S1 are linked by radio,
10 the radio link being limited to the local area
surrounding the field transmitter S1.

2. The field transmitter as claimed in claim 1,
wherein the radio link is effected on the basis of the
15 Bluetooth standard.

3. The field transmitter as claimed in one of the
preceding claims, wherein the field transmitter S1 has
a microprocessor P connected to a Bluetooth chipset SE,
20 and wherein the control device B likewise has a
microprocessor P1 which is connected to a corresponding
Bluetooth chipset SE1.

4. The field transmitter as claimed in one of the
25 preceding claims, wherein an antenna connection is
provided on the housing of the field transmitter S1.

5. The field transmitter as claimed in one of the
preceding claims, wherein the field transmitter S1 is
30 used for recording a process variable.

6. The field transmitter as claimed in one of the
preceding claims, wherein the field transmitter S1 is
connected to a central control unit PLS by means of a
35 field bus FB.

7. The field transmitter as claimed in one of the
preceding claims, wherein the data transmission rate

between field transmitter S1 and control device B is approximately 1 Mbit/sec.

8. The field transmitter as claimed in claim 7,
5 wherein the control device B is a portable computer
(laptop).

9. The field transmitter as claimed in claim 7,
wherein the control device B is a portable miniature
10 computer (palmtop).

10. The field transmitter as claimed in claim 7,
wherein the control device B is a portable handheld
appliance.

15 11. The field transmitter as claimed in claim 7,
wherein the control device B is a portable radio
telephone (mobile).

20 12. A method for controlling a field transmitter as
claimed in claims 1 to 11, wherein the control device
is used to transmit software changes (updates/upgrades)
to the field transmitter S1.

25 13. A method for controlling a field transmitter as
claimed in claims 1 to 11, wherein the control device B
is used to initiate a recurrent test on the field
transmitter S1.

30 14. A method for controlling a field transmitter as
claimed in claims 1 to 11, wherein the control device B
is used to make a status query for the purpose of
predictive maintenance of the field transmitter S1.